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Indian Standard

SPECIFICATION FOR
ALBUMEN FLAKES, NON-EDIBLE QUALITY

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BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

Indian Standard

SPECIFICATION FOR ALBUMEN FLAKES, NON-EDIBLE QUALITY

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AMENDMENT NO. 1 JULY 1989
TO
IS : 6557 - 1972 SPECIFICATION FOR ALBUMEN
FLAKES, NON-EDIBLE QUALITY

(*Page 4, clause 2.1, line 2*) — Substitute 'ducks, turkeys, and guinea fowls' for 'and ducks'.

(*Page 4, clause 3.2.1, line 2*) — Insert the words '1.2 to 1.6 mm in size and' after the word 'colour'.

(AFDC 18)

Reprography Unit, BIS, New Delhi, India

AMENDMENT NO. 2 APRIL 2011
TO
IS 6557 : 1972 SPECIFICATION FOR
ALBUMEN FLAKES, NON-EDIBLE QUALITY

[*Page 4, clause 4.2(c)*] — Substitute ‘Net quantity of the content; and’ for ‘Net weight of the content; and’.

[*Page 4, clause 4.2(d)*] — Insert the following at the end:

- ‘e) Any other marking required under the *Standards of Weights and Measures (Packaged Commodities) Rules, 1977.*’

(FAD 18)

Reprography Unit, BIS, New Delhi, India

Indian Standard

SPECIFICATION FOR ALBUMEN FLAKES, NON-EDIBLE QUALITY

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 30 May 1972, after the draft finalized by the Meat and Meat Products Sectional Committee had been approved by the Agricultural and Food Products Division Council.

0.2 Albumen flakes are being increasingly used by the printing industry in the country. Albumen flakes are used in compounding the sensitive mixture needed for coating aluminium or zinc foils for off-set printing. Recently, the indigenous production of albumen flakes has started. This Indian Standard is, therefore, being formulated to ensure that the production of albumen flakes is up to a quality level on the basis of which imports can be minimized. These albumen flakes are not fit for human consumption.

0.3 In the formulation of this standard considerable assistance has been derived from the investigations conducted at the Indian Veterinary Research Institute, Izatnagar.

0.4 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS:2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard prescribes the requirements and the methods of sampling and test for albumen flakes of non-edible quality.

*Rules for rounding of numerical values (revised).

2. TERMINOLOGY

2.0 For the purpose of this standard, the following definition shall apply.

2.1 Albumen Flakes — The dried product prepared from the albumen of eggs of hens and ducks.

3. REQUIREMENTS

3.1 Raw Material

3.1.1 Good eggs may be employed for preparing albumen flakes. Low grade eggs, broken eggs and discarded eggs may also be used if yolk and albumen can be separated clearly.

3.2 Processed Product

3.2.1 Albumen flakes shall be dry, crystalline, of pale yellow to dull brownish colour, free from extraneous matter and insect infestation.

3.2.2 The product shall also comply with the requirements given in Table 1.

TABLE 1 REQUIREMENTS FOR ALBUMEN FLAKES

Sl. No.	CHARACTERISTIC	REQUIREMENTS	METHODS OF TEST, REF TO	
			Appendix of This Standard	Appendix of IS : 4723-1968*
(1)	(2)	(3)	(4)	(5)
i)	Moisture content, percent, <i>Max</i>	8	—	A
ii)	pH	5.5 to 6	—	E
iii)	Solubility, percent, <i>Min</i>	80	—	D
iv)	Glucose, percent, <i>Max</i>	0.1	A	—

*Specification for egg powder.

4. PACKING AND MARKING

4.1 Packing — Albumen flakes shall be packed as agreed to between the purchaser and the manufacturer.

4.2 Marking — The container shall be marked legibly with the following information:

- Name of material alongwith brand name, if any;
- Name and address of the manufacturer;
- Net weight of the content; and
- Batch number or code number.

4.2.1 Each container may also be marked with the ISI Certification Mark.

NOTE — The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution (Certification Marks) Act, and the Rules and Regulations made thereunder. Presence of this mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard, under a well-defined system of inspection, testing and quality control during production. This system, which is devised and supervised by ISI and operated by the producer, has the further safeguard that the products as actually marketed are continuously checked by ISI for conformity to the standard. Details of conditions, under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

5. SAMPLING

5.1 The method of drawing representative samples of the material and the criteria for conformity shall be as prescribed in Appendix K of IS:4723-1968*.

6. TESTS

6.1 The test shall be carried out as prescribed in col 4 and 5 of Table 1.

6.2 Quality of Reagents — Unless specified otherwise, pure chemicals and distilled water (see IS:1070-1960†) shall be employed in the tests.

NOTE — 'Pure chemicals' shall mean chemicals that do not contain impurities which affect the experimental results.

A P P E N D I X A

[Table 1, Item (iv)]

DETERMINATION OF GLUCOSE IN ALBUMEN FLAKES

A-1. REAGENTS

A-1.1 Iodine Solution — 0.05 N.

A-1.2 Sodium Hydroxide Solution — 0.1 N.

A-1.3 Sulphuric Acid — concentrated.

A-1.4 Standard Sodium Thiosulphate Solution — 0.05 N.

*Specification for egg powder.

†Specification for water, distilled quality (revised).

A-2. PROCEDURE

A-2.1 Place accurately weighed one gram of the prepared sample of albumen flakes into a 250-ml volumetric flask and dilute with about 150 ml of water. Mix thoroughly the contents of the flask and make the volume to 250 ml with water. Pipette 50 ml of the albumen flakes solution in a 250-ml stoppered flask. Add 40 ml of iodine solution and 25 ml of sodium hydroxide solution. Stopper the flask and keep in dark for 20 min. Acidify with 5 ml of sulphuric acid and titrate quickly the excess of iodine against standard sodium thiosulphate solution. Conduct a blank using 50 ml of water instead of albumen flakes solution.

A-3. CALCULATION

A-3.1 Glucose, percent by weight = $(B - S) \times 0.004502$

where

B = volume of sodium thiosulphate solution required for the blank, and

S = volume of sodium thiosulphate solution required for the sample.

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